

Title (en)  
METHODS OF TREATING HEMATOLOGIC CANCERS USING PNP INHIBITORS SUCH AS FORODESINE IN COMBINATION WITH  
ALKYLATING AGENTS OR ANTI-CD20 AGENTS

Title (de)  
VERFAHREN ZUR BEHANDLUNG VON BLUTKREBS MIT PNP-INHIBITOREN WIE Z.B. FORODESIN IN KOMBINATION MIT ALKYLIERENDEN  
MITTELN ODER ANTI-CD20-MITTELN

Title (fr)  
PROCÉDÉS DE TRAITEMENT DE CANCERS HÉMATOLOGIQUES À L'AIDE D'INHIBITEURS DE PNP EN COMBINAISON AVEC DES AGENTS  
D'ALKYLATION OU DES AGENTS ANTI CD-20

Publication  
**EP 2237778 A2 20101013 (EN)**

Application  
**EP 08860419 A 20081210**

Priority  
• US 2008086256 W 20081210  
• US 1276207 P 20071210

Abstract (en)  
[origin: WO2009076455A2] The present application relates to treatment of hematologic cancers, which treatments can include, e.g., administration of  
a purine nucleoside phosphorylase (PNP) inhibitor, an alkylating agent and/or an anti-CD20 agent, and related compositions and kits.

IPC 8 full level  
**A61K 31/4184** (2006.01); **A61K 31/4745** (2006.01); **A61K 35/00** (2006.01); **A61K 39/395** (2006.01); **A61K 45/06** (2006.01); **A61P 35/02** (2006.01)

CPC (source: EP US)  
**A61K 31/4184** (2013.01 - EP US); **A61K 31/519** (2013.01 - EP US); **A61K 31/7076** (2013.01 - EP US); **A61K 39/39541** (2013.01 - EP US);  
**A61K 39/39558** (2013.01 - EP US); **A61K 45/06** (2013.01 - EP); **A61P 35/00** (2018.01 - EP US); **A61P 35/02** (2018.01 - EP US);  
**A61P 43/00** (2018.01 - EP); **C07K 16/2887** (2013.01 - US); **A61K 39/3955** (2013.01 - US); **A61K 45/06** (2013.01 - US);  
**A61K 2039/545** (2013.01 - EP US)

C-Set (source: EP US)  
1. **A61K 31/4184 + A61K 2300/00**  
2. **A61K 39/39541 + A61K 2300/00**  
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4. **A61K 31/7076 + A61K 2300/00**  
5. **A61K 39/39558 + A61K 2300/00**

Citation (examination)  
ALONSO ROBERTO ET AL: "The purine nucleoside phosphorylase inhibitor forodesine (BCX-1777) is a potent cytotoxic agent and has synergistic  
activity with bendamustine in chronic lymphocytic leukemia (CLL) irrespective of ZAP-70 levels and p53 status", BLOOD, AMERICAN SOCIETY OF  
HEMATOLOGY, US, vol. 110, no. 11, 1 November 2007 (2007-11-01), pages 918A - 919A, XP009167837, ISSN: 0006-4971

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Designated extension state (EPC)  
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DOCDB simple family (publication)  
**WO 2009076455 A2 20090618; WO 2009076455 A3 20090827**; AU 2008335167 A1 20090618; AU 2008335167 B2 20140213;  
CA 2708606 A1 20090618; CA 2708606 C 20150428; CA 2881035 A1 20090618; CA 2881035 C 20190416; CN 101969947 A 20110209;  
CN 101969947 B 20141022; CN 103736091 A 20140423; CN 103736091 B 20160928; CY 1120203 T1 20181212; DK 2564846 T3 20180522;  
EA 018415 B1 20130730; EA 025340 B1 20161230; EA 201070669 A1 20101230; EA 201370055 A1 20131129; EP 2237778 A2 20101013;  
EP 2564846 A1 20130306; EP 2564846 B1 20180228; EP 2581083 A1 20130417; ES 2670714 T3 20180531; GE P20135855 B 20130625;  
GE P20156288 B 20150525; HR P20180712 T1 20180615; HU E037342 T2 20180828; IL 206264 A0 20101230; IL 206264 A 20170430;  
JP 2011506345 A 20110303; JP 2014094962 A 20140522; JP 5543362 B2 20140709; KR 101545367 B1 20150818;  
KR 20100101139 A 20100916; LT 2564846 T 20180510; MY 163023 A 20170731; MY 193789 A 20221027; NO 2564846 T3 20180728;  
NZ 586416 A 20120727; NZ 601072 A 20140131; NZ 617989 A 20150529; PH 12014501454 A1 20160118; PH 12014501454 B1 20160118;  
PL 2564846 T3 20180831; PT 2564846 T 20180523; SG 188870 A1 20130430; SI 2564846 T1 20180629; UA 104579 C2 20140225;  
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DOCDB simple family (application)  
**US 2008086256 W 20081210**; AU 2008335167 A 20081210; CA 2708606 A 20081210; CA 2881035 A 20081210; CN 200880126808 A 20081210;  
CN 201410039689 A 20081210; CY 181100492 T 20180514; DK 12177257 T 20081210; EA 201070669 A 20081210;  
EA 201370055 A 20081210; EP 08860419 A 20081210; EP 12177257 A 20081210; EP 12196293 A 20081210; ES 12177257 T 20081210;  
GE AP2008011877 A 20081210; GE AP2008012864 A 20081210; HR P20180712 T 20180507; HU E12177257 A 20081210;  
IL 20626410 A 20100609; JP 2010537159 A 20081210; JP 2014009359 A 20140122; KR 20107015164 A 20081210; LT 12177257 T 20081210;  
MY PI2010002665 A 20081210; MY PI2014002587 A 20081210; NO 12177257 A 20081210; NZ 58641608 A 20081210;  
NZ 60107208 A 20081210; NZ 61798908 A 20081210; PH 12014501454 A 20140624; PL 12177257 T 20081210; PT 12177257 T 20081210;  
SG 2013017215 A 20081210; SI 200831952 T 20081210; UA A201008568 A 20081210; UA A201311750 A 20081210;  
US 201414190987 A 20140226; US 201916400414 A 20190501; US 202117393897 A 20210804; US 202318386050 A 20231101;  
US 74745608 A 20081210